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World Forum for Harmonization of Vehicle Regulations

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Item 17 of the provisional agenda
Exchange of information on new priorities to be incuded in the programme of work

Draft programme of work (PoW) under the 1998 Agreement

Note by the secretariat *

This document reproduces the feedback of working groups and Contracting Party representatives during the fifty-second session of the Executive Committee of the 1998 Agreement (AC.3) (ECE/TRANS/WP.29/1135, para. 114). It is based on WP.29-173-20 and it supersedes ECE/TRANS/WP.29/2017/144. It is submitted to the World Forum for Harmonization of Vehicle Regulations (WP.29) and to AC.3 for consideration at their March 2018 sessions.

* In accordance with the programme of work of the Inland Transport Committee for 2016–2017 (ECE/TRANS/254, para. 159 and ECE/TRANS/2016/28/Add.1, cluster 3.1), the World Forum will develop, harmonize and update Regulations in order to enhance the performance of vehicles. The present document is submitted in conformity with that mandate.

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Please recycle

Draft programme of work (PoW) under the 1998 Agreement

Ia. Existing UN GTRs - High priority

UN GTR	Title	GR	Version	Reason	Organsiation of work	Reference documents	Expected time needed to finalise	Status
UN GTR No. 3	**Motorcycle brake systems**	**GRRF**	Amendment 3	Reflect UN Reg. No. 78	IWG: None Sponsor: Italy		March 2018	Draft request for authorization to develop Amendment 3 to UN GTR No. 3 adopted by AC.3 in November 2016
UN GTR No. 7	**Head restraints**	**GRSP**	Phase 2	Amend UN Reg. No. 17 (in parallel)	IWG: Yes (UK) Sponsor: Japan	AC.3/25/Rev. 1 GRSP/2015/34	End of 2018	GRSP considered an informal proposal, addressing all issues, including draft Addendum 1 to the M.R.1 at its December 2016 session. AC.3 agreed to extend the mandate of the IWG until March 2017.

Ia. Existing UN GTRs - High priority

UN GTR No. 9	**Pedestrian safety**	**GRSP**	Phase 2	Improve harmonisation, increase safety	IWG: Yes (Germany, Japan) Sponsor: Germany, Japan	AC.3/24 2016/115	Phase 2 (new leg form impactor) is finalised, waiting for USA vote. Amendments to phase 1 and 2 (clarifications and bumper test zone) idem. The new work on deployable systems (by Korea, OICA for pop-up bonnets, external airbags, etc.) still under development, to be finalized by end of 2017, but probably one more year needed.	GRSP resumed discussion at its December 2016 session on IARVs and on the draft UN GTR, altogether with a proposal addressing bumper test. AC.3 endorsed the authorization to develop an amendment to the UN GTR to provide the test procedure for deployable systems of the outer surface to ensure an adequate protection of pedestrians and extended the mandate of the IWG on Phase 2 until December 2017.
			Amendment 3	Reflect UN Reg. No. 127	IWG: ??? Sponsor: EC	AC.3/31 GRSP/2014/2 GRSP/2014/5	Done. This concerns phase 2 as well as the amendments to phase 1 and 2 which are already transposed into UN Reg. No. 127	GRSP considered a revised proposal concerning points of contact of headform impactors at its December 2016 session addressing the Phase 1 and 2 of the UN GTR.

Ia. Existing UN GTRs - High priority

UN GTR No. 11	**Test procedure for pollutant emissions in CI engines in tractors & NRMM**	**GRPE**		Reflect amendments of UN Reg. No.96			Work expected to start in 2018, after amendment of UN Reg. No. 96 which is adapted to the new EU Regulation on NRMM (Stage V)
UN GTR No. 13	**GTR on Hydrogen & fuel cell vehicles**	**GRSP**	Phase 2			End of 2020	PoW is expected to be finalized in the near future and an informal proposal of authorization to develop Phase 2 was endorsed by AC.3 in March 2017 session, AC3/49 for endorsement in June 2017 session
UN GTR No. 15	**World harmonised light vehicle test procedures (WLTP)**	**GRPE**	Amendment 3	Reflect EU legislation on WLTP			At the June 2017 GRPE conference, the Amendment 3 has been adopted by GRPE, together with a further informal document providing further amendments to Amendment 3. So the discussion on Amendment 2 might be pointless.
UN GTR No. 16	**Tyres**	**GRRF**	Amendment 2		IWG: Yes (Russia) Sponsor: Russia	November 18	Draft request for authorization to develop Amendment 2 to UN GTR No. 16 adopted by AC.3 in November 2016
UN GTR No. [x1]	**Evaporative emissions in passenger cars (WLTP EVAP)**	**GRPE**	UN GTR	Reflect EU legislation on WLTP	IWG: ??? (--) Sponsor: Japan, EU.	End 2018 (tbc)	New UN GTR adopted at WP.29 June 2017 session.Note that sealed tanks have been included in the newly adopted (as informal document) EVAP UN GTR (June 2017 GRPE conference). On semi-sealed tanks, the work will continue.

Ia. Existing UN GTRs - High priority

UN GTR No. [x2]	**Electrical Vehicle Safety (EVS)**	**GRSP**	Phase 1 and Phase 2	IWG: Yes (China, Japan, USA, EU) Sponsor: China, Japan, USA, EU.	AC.3/32	GRSP in May gave a green light to WP29 to proceed with a vote. Adoption of the new GTR is foreseen at WP.29 November 2017 session. Phase 2 (long-term research items) mandate expected to be approved by WP29 in November 2017.

1b . Existing GTRs - Low priority

UN GTR	Title	GR	Version	Reason	Organsiation of work	Reference documents	Expected time needed to finalise*	Status
UN GTR No 2	**Measurement procedures for 2-wheelers (WMTC)**	**GRPE**	Amendment 4		IWG: EPPR (Sweden) Sponsor: EU	AC.3/36		AC.3 recommended, in March 2015, that the IWG continue to work on the creation of a new specific UN GTR.
UN GTR No. 4	**Test procedure gas-fuelled engines (WHDC)**	**GRPE**	Amendment 4					"There is need for extra validation of methodology regarding hybrids" - Please check
UN GTR No. 6	**Safety glazing materials vehicles & veh equipment**	**GRSG**	?		IWG: Yes (Germany, Korea) Sponsor: Korea	AC.3/41		AC.3 noted the request by GRSG to further update the Term of References and the need to extend the mandate of the IWG on PSG until June 2018. Awaiting technical investigation results
UN GTR No. 15	**World harmonised light vehicle test procedures (WLTP)**	**GRPE**	n/a	Reflect EU legislation on WLTP	IWG: EVE (USA, Japan, China) Sponsor: Canada, China, Japan, USA, EU			Continue research on certain environmental requirements for electric vehicles. Awaiting input from WLTP phase2. For the moment the activities related to the electrified vehicles (determination of max power, battery durability, etc.) are still being dealt with mainly by the EVE IWG, which is external to WLTP. When and how this work will become an amendment to the UN GTR No. 15 or a separate UN GTR is still unclear.

Ic. Existing GTRs - No activities identified for PoW

UN GTR	Title	GR	Version	Reason	Organisation of work	Reference documents	Status
UN GTR No. 5	Technical requirements for OBD systems	GRPE					
UN GTR No. 8	Electronic stability control	GRRF?					
UN GTR No. 10	Off-cycle emissions (OTC)	GRPE					
UN GTR No. 12	Motorcycle controls, tell-tales & indicators	GRE?					
UN GTR No. 14	Pole side impact (PSI)	GRSP			IWG: Yes (Australia) Sponsor: Australia		No new information was provided at the March 2016 session of AC.3
UN GTR No. 17	Crankcase and evaporative emissions of 2 or 3-wheeled motor vehicles	GRPE					Still to be notified!

Ic. Existing GTRs - No activities identified for PoW

UN GTR No. 18	**On-board diagnostics (OBD) for 2 or 3-wheeled motor vehicles**	**GRPE**				Still to be notified!
UN GTR No. [x3]	**Quiet Road Transport Vehicles (QRTV)**	**GRB**	Reflect UN Reg No. 138	IWG: Yes (USA); Vice-Chair: Japan Secretariat: EC	UN GTR draft dated 19 Nov. 2014	Due to the effective date of USA rule further extension to 5 September 2017, the USA expert informed that the next QRTV GTR will be after that date. Further clarifications are expected to be addressed by National Highway Traffic Safety Administration (NHTSA) - USA in the WP29, November 2017 session.

II. New Priorities

Title	Group	Organisation of work	Reference documents	Time horizon for starting work*	Comments
Framework Regulation on automated/autonomous vehicles	**New GR? ITS/AD?**	(IWG ACSF)		MT (tbc)	Could possibly also take the form of a UNECE Regulation. [ACSF: Automatically Commanded Steering Function]
Cyber security	**IG ITS/AD**	TF CS/OTA		ST	It is not decided yet whether to regulate cyber security issues in ITS/AD IWG and TF. Could possibly also take the form of a UNECE Regulation. Work of Task Force on Cyber Security (CS) and Over-the-Air (OTA) updates is ongoing
Advanced Emergency Braking Systems (AEBS)	**GRRF**	IWG AEBS		MT (tbc)	Some work done on truck & bus collisions against moving and stationary obstacles (see UN Reg 131). Activity launched as an informal group on AEBS for cars (needed for the future revision of GSR)
Line Keeping Assist Systems (LKAS)	**GRRF**	(IWG ACSF)		MT (tbc)	WP29 aleady adopted an amendment to UN Regulation No. 79 in March 2017. This could be transformed into a GTR as US is also thinking about regulating
Event Data Recorders (EDR)	**GRSG?**			MT (tbc)	Should be compatible with highly automated vehicle requirments.

II. New Priorities

Longitudinal control (ACC, preventive braking)	**GRRF?**	tbd	Could possibly also take the form of a UNECE Regulation. Longitudinal control not regulated today except AEBS for Heavy Duty Vehicles (HDV)
Driver availability recognition	**ITS/AD?G RSG?**	MT (tbc)	Should be compatible with highly automated vehicle requirements.

* ST : Short-term (<1 year) - MT : Mid-term - LT : Long-term (>3 years)